How to Configure MSAD Authentication

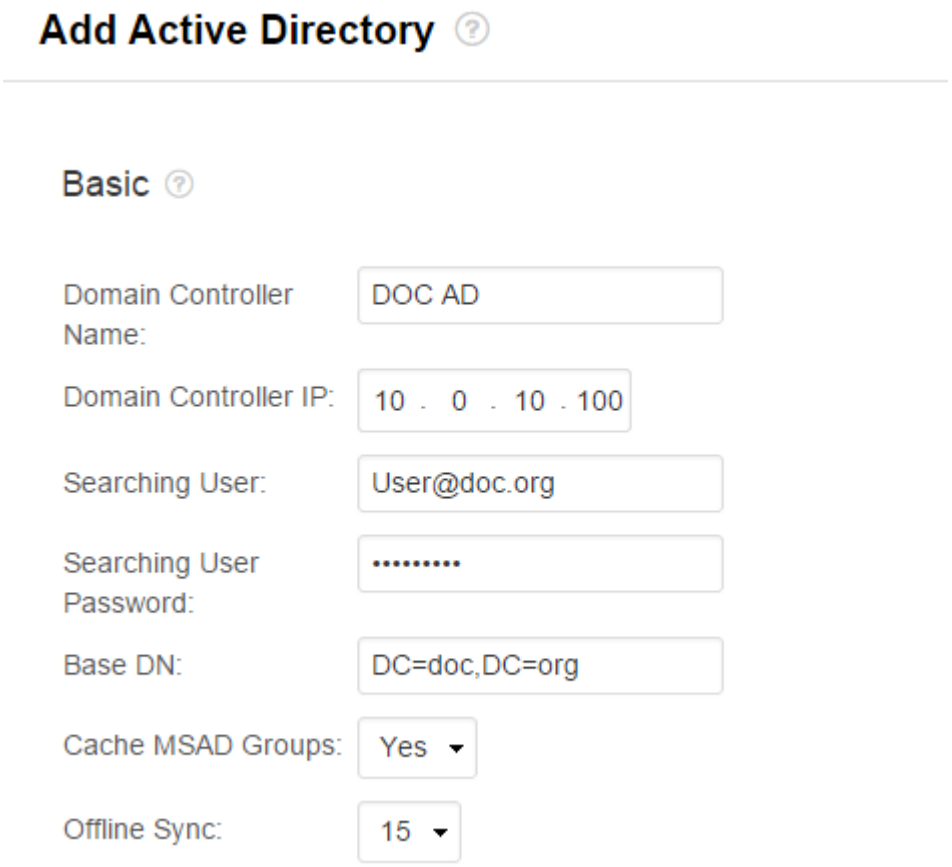
https://campus.barracuda.com/doc/43224170/

Configure the Barracuda NextGen Firewall X-Series to allow authentication and authorization of domain users on a Microsoft Active Directory (MSAD) server. To reduce load querying for large environments, you can also filter unwanted group membership information by creating group filter patterns.

Configure MSAD Authentication

Connect the X-Series Firewall with your Microsoft Active Directory (MSAD) server and configure MSAD as external authentication scheme.

1. Go to the **USERS** > **External Authentication** page.
2. Click the **Active Directory** tab.
3. In the **Basic** section, click **Add**.
4. Enter the **Domain Controller IP** address.
5. In the **Searching User** field, enter the MSAD **Searching User** in the `user@domain` format:
   Do not use the `domain\user` format.
6. Enter the **Searching User Password**.
7. Specify the **Base DN** where the lookup should be started. E.g., `CN=trainee,OU=sales,DC=mycompany,DC=com`
   Do not use spaces between the entries.
8. Set **Cache MSAD Groups** to **Yes** to reduce network traffic and server load on the domain controller.



9. Select **Use SSL** if your Active Directory server is configured to use SSL.
10. (Optional) Select **Follow Referrals** to use Active Directory's global catalog and follow the referrals. When a requested object exists in the directory but is not present on the contacted domain controller, the referral gives the client a location that holds the object or is more likely to hold the object. It is also possible for the referred-to domain controller to refer to a next hop location. The number of next hops is defined in **Maximum Hops for Referrals**.
11. Click **Save**.
12. (Optional) Add **Group Filter Patterns** to filter unwanted group information. Wlldcards are allowed.
    Example: When using pattern: **SSL**, and the following group membership strings are used:
    User01 group membership string: `CN=xyz,OU=sales,DC=mycompany,DC=com`
    User02 group membership string: `CN=SSL,DC=mycompany,DC=com`
    Only **User02** will match.
13. Click **Save**.

The configuration is now added to the **EXISTING AUTHENTICATION SERVICES** table and you can use the MSAD authentication service on the X-Series Firewall.

Troubleshooting

To test, if the connection is working, try to login as the user from another network host. When a user, for whom the authentication scheme applies, logs into the network, a log entry is created showing the login details such as source address, success or failure, time, etc. To access authentication logs, go to the **LOGS > Authentication Logs** page.

If the connection cannot be established:

- Make sure that you have entered the MSAD searching user in the **Searching User** field in the correct format: `user@domain`. Do not use the `domain\user` format.
- Verify that the entry for the **Base DN** where the lookup should be started does not contain spaces.
- Check the **Logs > Authentication Log** page for error messages when connecting to your Active Directory server.

Figures

1. ad01_67.png
2. ad02_67.png

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